## PATENT COOPERATION TREATY

## **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

International application No. PCT/US03/16214   International filing date (day/month/year)   (Earliest) Priority Date (day/month/year)   17 June 2002 (17.06.2002)   Applicant SISPHARMACEUTICALS, INC.  This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.  This international search report consists of a total of sheets.		licant's or agent's file reference -0055WO	FOR FURTHER ACTION		cation of Transmittal of International Search Report T/ISA/220) as well as, where applicable, item 5
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.  This international search report consists of a total of sheets.  It is also accompanied by a copy of each prior art document cited in this report.  Basis of the Report  a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filled, unless otherwise indicated under this item.  the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).  b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:  contained in the international application in written form.  filed together with the international application in computer readable form.  furnished subsequently to this Authority in written form.  furnished subsequently to this Authority in computer readable form.  furnished subsequently to this Authority in computer readable form.  the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.  Certain claims were found unsearchable (See Box I).  Unity of invention is lacking (See Box II).  With regard to the title.  the text is approved as submitted by the applicant.  the text is approved as submitted by the applicant.  the text is approved as submitted by the applicant.  the text is approved as submitted by the applicant.  the text is approved as submitted by the applicant.  the text is approved as submitted by the applicant.  the text is approved as submitted by the applicant.  the text is approved as submitted by the applicant.  The figure of the drawings to be published with the abstract is Figure No.		**		nth/year)	
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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/16214

A. CLAS	SSIFICATION OF SUBJECT MATTER					
IPC(7) : C12Q 1/68; A01N 43/04; C07H 21/04; A61K 31/07						
US CL: 435/6, 91.1, 325, 375; 514/44, 536/24.5, 23.1, 24.3, 24.33  According to International Patent Classification (IPC) or to both national classification and IPC						
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	U.S.: 435/6, 91.1, 325, 375; 514/44, 536/24.5, 23.1, 24.3, 24.33					
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Please See C	onthuation sheet					
	UMENTS CONSIDERED TO BE RELEVANT	6.0	D.1			
Category *	Citation of document, with indication, where a		Relevant to claim No.			
X	US 2002/0107218 A1 (MERCOLA et al.) 08 Augu	st 2002 (08.08.2002), see claims 1-4,	1-27 and 49			
Y	11-1-1, ulu 21 2-1.	·	:			
Y	DINEV et al. Extracellular signal regulated kinase	•	1-27 and 49			
	differentiation of muscle cells. EMBO Reports, 20		1.27 and 40			
Y	US 6,030,822 A (LECHNER et al) 29 February 20 4B).	00 (29.02.2000), (see Figures 4A and	1-27 and 49			
Y	US 5,801,154 A (BARACCHINI et al.) 01 Septemi	ber 1998 (01.09.1998), see column 7	1-27 and 49			
	lines 6 and 22 and column 8 line 12; column 6 line	,				
Y	FRITZ et al. Cationic Polystyrene Nanoparticles:		1-27 and 49			
	Model Drug Carrier System for Antisense Oligonuc Interface Science, 1997, Vol. 195, pages 272-288.	cleotides. Journal of Colloid and				
	interface defence, 1997, voi. 199, pages 272 200.					
Burther	documents are listed in the continuation of Box C.	See patent family annex.				
	pecial categories of cited documents:	"T" later document published after the inte	mational filing date or priority			
`	•	date and not in conflict with the applic	ation but cited to understand the			
	defining the general state of the art which is not considered to be lar relevance	principle or theory underlying the inve	ntion			
"B" earlier an	plication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be consider				
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	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of particular relevance; the				
specified)		considered to involve an inventive step combined with one or more other such				
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the				
	published prior to the international filing date but later than the	"&" document member of the same patent i	amily			
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INTERNATIONAL SEARCH REPORT	PC1/USU3/16214
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C. A	
Continuation of B. FIELDS SEARCHED Item 3:  Medline, CaPlus, EmBase, CancerLit search terms: antisense, ribozyme, ERK6, ERK-6, extracellular signal regulate mitogen activated protein kinase 3, mitogen activated protein kinase 12, MAPK ERK5	ed kinase 6, stress activated protein kinase 3, SAPK3, 12, PRKM12, p38 gamma, p38gamma, ERK3, and
Medline, CaPlus, EmBase, CancerLit search terms: antisense, ribozyme, ERK6, ERK-6, extracellular signal regulate mitogen activated protein kinase 3, mitogen activated protein kinase 12, MAPK	ed kinase 6, stress activated protein kinase 3, SAPK3, 112, PRKM12, p38 gamma, p38gamma, ERK3, and
Medline, CaPlus, EmBase, CancerLit search terms: antisense, ribozyme, ERK6, ERK-6, extracellular signal regulate mitogen activated protein kinase 3, mitogen activated protein kinase 12, MAPK	ed kinase 6, stress activated protein kinase 3, SAPK3, K12, PRKM12, p38 gamma, p38gamma, ERK3, and
Medline, CaPlus, EmBase, CancerLit search terms: antisense, ribozyme, ERK6, ERK-6, extracellular signal regulate mitogen activated protein kinase 3, mitogen activated protein kinase 12, MAPK	ed kinase 6, stress activated protein kinase 3, SAPK3, K12, PRKM12, p38 gamma, p38gamma, ERK3, and
Medline, CaPlus, EmBase, CancerLit search terms: antisense, ribozyme, ERK6, ERK-6, extracellular signal regulate mitogen activated protein kinase 3, mitogen activated protein kinase 12, MAPK ERK5	
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